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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|---------------------|----------------------|-------------------------|------------------|
| 09/787,497 | 03/16/2001 | Andrew A. Goldfine | A351.12-0002 | 3946 · |
| 164 | 7590 10/27/2003 | | EXAMI | NER |
| KINNEY & LANGE, P.A. | | | WATKINS III, | WILLIAM P |
| THE KINNEY & LANGE BUILDING 312 SOUTH THIRD STREET | | | ART UNIT | PAPER NUMBER |
| MINNEAPO | DLIS, MN 55415-1002 | | 1772 | |
| | | | DATE MAILED: 10/27/2003 | ا ع |



Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) |
|---|--|---|
| · | 09/787,497 | GOLDFINE, ANDREW A. |
| Office Action Summary | Examiner | Art Unit |
| | William P. Watkins III | 1772 |
| The MAILING DATE of this communication | n appears on the cover sheet with | h the correspondence address |
| eriod for Reply | DEDLY IS SET TO EVOIDE 2 MC | NITH(S) EDOM |
| A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). tatus | ON. FR 1.136(a). In no event, however, may a rejon. , a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MONT statute, cause the application to become ABA | oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133). |
| 1) Responsive to communication(s) filed or | 1 <u>4 July 2003</u> . | |
| | This action is non-final. | |
| 3) Since this application is in condition for a closed in accordance with the practice u | allowance except for formal matt nder <i>Ex part</i> e <i>Quayle</i> , 1935 C.D | ers, prosecution as to the merits is . 11, 453 O.G. 213. |
| isposition of Claims | Cotto complication | |
| 4) Claim(s) <u>37-52 and 74-79</u> is/are pending | | |
| 4a) Of the above claim(s) is/are wit | ndrawn from consideration. | |
| 5) Claim(s) is/are allowed. | | |
| 6)⊠ Claim(s) <u>37-52 and 74-79</u> is/are rejected. | | |
| 7) Claim(s) is/are objected to. | II | |
| 8) Claim(s) are subject to restriction application Papers | and/or election requirement. | |
| 9) The specification is objected to by the Exa | | |
| 10) ☐ The drawing(s) filed on is/are: a) ☐ | | |
| Applicant may not request that any objection | | |
| 11) The proposed drawing correction filed on _ | · | sapproved by the Examiner. |
| If approved, corrected drawings are required | | |
| 12) The oath or declaration is objected to by the | ne Examiner. | · |
| riority under 35 U.S.C. §§ 119 and 120 | | |
| 13) Acknowledgment is made of a claim for fo | oreign priority under 35 U.S.C. § | 119(a)-(d) or (t). |
| a) ☐ All b) ☐ Some * c) ☐ None of: | | |
| Certified copies of the priority docu | | |
| Certified copies of the priority docu | | |
| 3. Copies of the certified copies of the application from the Internation * See the attached detailed Office action for | al Bureau (PCT Rule 17.2(a)). | • |
| 14) Acknowledgment is made of a claim for do | | |
| a) The translation of the foreign languages 15) Acknowledgment is made of a claim for do | ge provisional application has be | en received. |
| ttachment(s) | · • | |
| Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-94) Information Disclosure Statement(s) (PTO-1449) Paper N | 18) 5) Notice of In | ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152) . |

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DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 74 and 77 are rejected under 35 U.S.C. 102(b) as being anticipated by Spertus (U.S. 3,546,055) or Nakayama (U.S. 4,085,176).

See Figures 1 and column 3, lines 15-25 of Spertus. The examiner takes the case of the threads abutting as forming a netting structure. See Figure 2, column 2, lines 35-50 of Nakayama.

3. Claim 47 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is not clear how the resin material can be expanded in claim 37 yet void free in claim 47.

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4. Claims 75 and 78 are rejected under 35 U.S.C. 102(b) as being anticipated by Habib (U.S. 3,285,768) or Bethe (U.S. 3,961,001).

See Figure 4 of Habib and Figure 5 of Bethe. The examiner takes the projections as being attached to the fabric and in contact with each other.

5. Claims 37-41 are rejected under 35 U.S.C. 102(b) as being anticipated by Ambrose (U.S. 3,840,269).

See the abstract and Figures 7, 2, and 8, col. 4, lines 110. Ambrose teaches a mold with two parts. The bottom part has various surfaces, which form mold cavity portions, which in turn form the top surface of Figure 2. The resin passes through the holes in the mesh layer during expansion. The cushion layer is further processed after removal from the mold (col. 4, lines 15-30).

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the

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art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 37-41, 44-45, 46 and 76-79 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brunner (U.S. 3,016,317) in view of Ambrose (U.S. 3,840,269).

Brunner teaches a closed cell foam mat with impact projections on the top and bottom surfaces (Figure 3 and 1, col. 2, liens 25-35). Ambrose teaches putting a net shaped reinforcing layer in a foam article to prevent tearing and crumbling of the foam (col. 4, lines 4-55). Ambrose further teaches forming the net reinforcement in the foam layer by expanding resin through the netting in a closed mold, which also provides desired shapes on the surface of the foamed article (see the abstract and Figures 7, 2, and 8, col. 4, lines 1-10). The instant invention claims a flexible layer structure with impact projections in contact and on both sides of the mesh layer with the article being formed by expansion in a closed mold of resin and removal to finish the article. It would have been obvious to one of ordinary skill in the art to add a mesh layer to the article of Brunner to prevent the foam layer from tearing or crumbling because of the teachings of Ambrose. further would have been obvious to one of ordinary skill in the

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art to form the combined article by foaming resin in a mold in order to join foam to both sides of the mesh layer because of the teachings of Ambrose. The top layer of the combination is finished with a cover layer after molding. Brunner teaches the use of any suitable plastic foam (col. 3, lines 20-30).

8. Claims 51-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brunner (U.S. 3,016,317) in view of Ambrose (U.S. 3,840,269) as applied to claims 37-41, 44-45, 46 and 76-79 above, and further in view of Hanusa (U.S. 4,138,283).

Hanusa teaches the formation of grooves or projections in a foam layer by cutting (col. 1, lines 20-45). The instant invention claims molding reins over a mesh and using the mold to shape the top of the article then removal from the mold and forming bottom projections by cutting. It would have been obvious to one of ordinary skill in the art to form the projections of Brunner as modified above by either cutting or molding as alternate means because of the teachings of Hanusa and Ambrose.

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9. Claims 37-41, 42-43 and 46-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spertus (U.S. 3,546,055) or Nakayama (U.S. 4,085,176) in view of Ambrose (U.S. 3,840,269).

Spertus and Nakayama teach molded resin elements extending from and joined to a mesh structure as noted above. Ambrose teaches a method of molding resin and joining it to a mesh structure as noted above. The instant invention claims forming a mesh with separate projections joined on both sides of the mesh my molding a closed mold. It would have been obvious to one of ordinary skill in the art to have formed the projections of Spertus or Nakayama by foaming resin in a closed mold in order to join the projections to the mesh material because of the teachings of Ambrose.

- 10. Applicant's arguments with respect to claim 37-52 and 74-79 have been considered but are moot in view of the new ground(s) of rejection.
- 11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William P. Watkins III whose telephone number is 703-308-2420. The examiner works an increased flex time schedule, but can normally be reached Monday through Friday, 11:30 A.M. through 8:00 P.M. Eastern Time. The examiner returns all calls within one business day unless an extended absence is noted on his voice mail greeting.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 703-308-4251. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

Willian P. Westers

WW/ww October 16, 2003 WILLIAM P. WATKINS III PRIMARY EXAMINER